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crops. Khidrotekh i melior 9 no. 4:114-118 '64.

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(GLYCEROPHOSPHATES, effects,
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1. Dept. of Immunology, Institute of Microbiology, Bulgarian Academy
of Sciences.

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Segregation of man's ab-group spermatozoa in a- and b- spermatozoa through agglutination with immune anti-a rabbit serum. Dokl. bolg. akad. nauk 15 no.6:669-672 '62.

1. Submitted by Academician A.I. Hadjiolov.
(SPERMATOZOA) (IMMUNE SERUMS)

VULCHANOV, V.I.; HADJIEVA, Y.

On possibilities of auto-immunization in mental patients.
Dokl. Bolg. akad. nauk 17 no.1:311-314, '64

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Organ antibodies detected in serum of O-blood-group-person fertilized with spermatozoa of donor belonging to A-blood group. Dokl. Bulg. akad. nauk 17 no.9:865-868 '64.

1. Submitted by Corresponding Member K. Bratanov.

L 4353-66

SOURCE CODE: RI/0011/65/018/002/0165/0158

ACC NR: AP5028779

AUTHOR: Vulchanov, V. H.; Vassilev, V. N.; Obretenova, K.; Belokonski, I. B
B

ORG: Institute of Microbiology, Bulgarian Academy of Sciences; Tuberculosis Research Institute at the Ministry of Health and Social Welfare

TITLE: Auto-immunization and auto-allergization in preliminary x-ray treated guinea pigs infected with tuberculosis

SOURCE: Bulgarska akademiya na naukite, v. no. 2, 1965, 165-168

TOPIC TAGS: immunology, experiment animal, biochemistry, immunization, radiology, radiation biologic effect, tuberculosis

ABSTRACT: [English article] It was established in previous investigations by the authors (Mzv. Mikrobiol. in-t. BAH, 15, 1963, 115; Immunitaets- u. Allergieforsch., 125, 1963, 207) that complement-fixing leuco-, puimo-, and cerebro-antibodies could be detected in the serum of some tuberculous patients with chronic empyema. Comparing this with the findings of other researchers who found leucosagglutins in patients with splenic tuberculosis (see, e.g., S. Moeschlin, Acta Scand. Suppl., 312, 1956, 513) and pulmoantibodies in patients with cavernous lung tuberculosis (A. T. Hennas et al., Amer. J. Resp. Dis., 83, 1961, 351), the authors stressed the role of tuberculosis infection in the induction of a 'polyspecific' auto-immunization process in

Card 1/2

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ACC NR: AP5028779

the affected organism. Experimental studies, part of which are the subject of the present communication, were performed with the aim of further elucidating this problem. As has been shown in the guinea pig infection model, it seems that mycobacterium tuberculosis humanum, strain H₃₇Rv, plays a significant role in inducing auto-antigenicity of a 'polyspecific' character. The pre-treatment with 400 r irradiation, producing conditions for a wider spread and deeper penetration of the infection, increases the possibilities of inducing auto-antigenicity and accelerates the autoimmunization process. Irradiation causes inhibition (up to the 30th day) of the delayed type of hypersensitivity in animals infected with tuberculosis. In some cases only auto-sensitization with respect to extracts of lymph node, brain, and peritoneal leucocytes is established on the 30th day or later after the infection. The induction of auto-antigenicity in the concrete case might be ascribed rather to the infection's direct action (the effect of irradiation being added to it) upon the tissues than to changes in the immunological competence of the antibody-forming cells caused by the radiation. The work was presented by A. Toschkoff, Corresponding Member of BAI, 30 Sep 64. Orig. art. has: 2 tables. [JPRS]

SUB CCDE: LS / SUBM DATE: 30Sep64 / ORIG REF: 002 / OTH REF: 005

Card 2/2

I. 20209-66 - T JF

ACC NR: AF6010334

SOURCE CODE: BU/OC11/65/018/009/037/0890

AUTHOR: Tribulev, G. P.; Podoplelov, I. I.; Popivanov, R. P.; Vulchanov, V. H.

ORG: Institute of Experimental Biology, Academy of Medical Sciences, Moscow;
Department of General Biology, Higher Medical Institute, Sofia; Institute of
Microbiology, Bulgarian Academy of Sciences, Sofia

TITLE: Study of antigenic relations between HeLa-cells and human spermatozoa

SOURCE: Bulgarska akademiya na naukite. Doklady, v. 18, no. 9, 1965, 887-890

TOPIC TAGS: antigen, cytology, biologic reproduction

ABSTRACT: Following their earlier investigations conducted in two separate groups (see, e.g., I. I. Podoplelov et al., Zhurn. eksper. biol. i med., 8, 1964, 85; R. Popivanov, V. Kh. Vulchanov, Ibid., 2, 1965, 110), the authors started in 1964 joint investigation concerning the possible antigenic kinship between human spermatozoa and the HeLa cells. The present article gives an account of the material used and the experimental results achieved. The overall analysis leads to the conclusion that HeLa cells as well as human erythrocytes and spermatozoa contain the O(H) isoantigen and one more antigen common to the three cell types, most probably with a species specificity. The theoretical foundation of the problem and a detailed description of the experiments will be published elsewhere (G. P. Tribulev, et al., Eksper. med. i morfol., 4, 3, 1965). This paper was presented by Al. Toshkov, Corresponding Member BAA, on 25 May 1965. [JPRS]

SUB CODE: 06 / SUBM DATE: none / ORIG REF: 001 / OTH REF: 008 / SOV REF: 006

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MARKOV, VL.N., akad.; VULCHANOV, V., kh.; ILIEVA, V.

Studies on the effect of neurolysins on the mechanisms of immuno-
biological defense. II. Influence of neurolysins on phagocytosis in
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(LYSINS)

(PHAGOCYTOSIS)

(IMMUNOLOGY)

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Second addition of Academician Metodii Popov's biobibliography.
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(BIOLOGY)
(BULGARIA--BIBLIOGRAPHY)

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(ANTIBODIES)

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Studies on the nature of experimental leukopenia produced by the
immunization with typhoid Vi-vaccines. Izv. inst. biol. Popov (Sofia)
11:329-349 '61.

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(LEUKOPENIA exper)

20. "On the role of the lymphocytes in immunoregulation,"
Vil. Kabanov and Leonid V. Kabanov, for the Department of
Immunology, Institute of Microbiology, Academy of
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TOSHKOV, A.I. TOSHKOV, A.I.; VULCHANOV, V.P.; KOSTEV, V.

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properties of the blood. *Tr. mikrobiol. inst. (Sofia)* 16:159-164
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Research on the characteristics of experimental leucopenia resulting
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(LEUCOPENIA) (IMMUNIZATION) (TYPHOID FEVER)
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On the role of the lymphocytes in immunogenesis. Izv. mikrobiol.
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On possibilities of auto-immunization in mental patients. Doklady
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1. Microbiological Institute at the Bulgarian Academy of Sciences,
and Research Institute on Neurology and Psychiatry at the Ministry
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1. Institute of Biology and Pathology of Farm Animal Multiplication at the Bulgarian Academy of Sciences, Chair of General Biology, Higher Medical Institute, Sofia, and Microbiological Institute at the Bulgarian Academy of Sciences.

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Khirurgia 15 no.9/10:909-912 '62.

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STOYANOV, E.; VULCHANOVA, S.

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Nauch. tr. vissh. med. inst. Sofia 42 no.4:45-48 '63

1. Chair of Surgical Diseases with Urology, (Director: Prof. .
G. Popov); Medical Institute in Sofia.

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Khirurgiia (Sofia) 18 no.3:371-372 '65.

1. Visssh meditsinski institut, Sofia, Katedra po khirurgiia i
bolesti s urologiia (rukovoditel: prof. G. Popov).

VUICHETOV, Dimitur, st. prepodavatel

Formation of Hearfirst, and preparations against it. Prir i
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1. Higher Institute of National Economy, Varna.

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1. Metalurgicheski zavod "Lenin".

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"Dying Tanned Hides Red and Blue." p. 34,
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p.9 (Leka Promishlenost, Vol. 6, no. 5, 1957, Sofia, Bulgaria.)

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Petroleum of Dubnitsa. Nauka i tekhnolozhiya 14, no.6:17 Je '62.

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Studies of the oil fractions of the Dubnik petroleum. Godishnik
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some characteristics of viscosity and temperature. Khim. i industriia
35 no.6:203-205 '63.

GERASIMOV, M.; KAISHEV, Kr.; IORDANOV, I.; BEKLAROVA, El.; MOMOV, Iv.;
DOBREVSKI, Iv.; VULCHEV, D.

Physicochemical properties of petroleum of Dolni Dubnik, region of
Pleven. Khim industriia 34 no.3:83-85 '62.

COUNTRY	: Bulgaria	H-23
CATEGORY	:	
ABS. JOUR.	: RZKhim., No. 16 1959, No.	58527
AUTHOR	: Vulchev, D., Belichev, P., and Ganchev, P.	
INST.	: <u>Not given</u>	
TITLE	: Diesel Fuels Produced from Bulgarian Crude	
ORIG. PUB.	: Tezhka Promishlenost, 7, No 11, 26-29 (1958)	
ABSTRACT	: Diesel fuels currently produced in the Bulgarian Peoples Republic include: fuels for high-speed diesels (straight-run kerosene-gas oil fractions representing 23-25% by wt of the crude) and heavy fuel oils (a mixture of 25% gas oil and 75% naphtha). The authors compare the indexes of Soviet and Bulgarian diesel fuels and emphasize the shortcomings of the latter (lower cetane numbers, increased sulfur content, increased viscosity, etc.) and make suggestions on the rationalization	

CARD: 1/2

CARD: 2/2

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Possibilities of production of high-boiling mazut from Bulgarian petroleum. p. 17

TEZHKA PROMISHLENOST, Sofia, Bulgaria, Vol. 8, No. 4, Apr. 1959.

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khim tekhn 9 no.2:39-43 '62 [publ. '63].

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inzh.

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KAISHEV, Krum, dotsent; MARINOVA, Elena, inzh.; VULCHEV, Dimitur, inzh.

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Preparation of fluxed manganese agglomerate. Godishnik khim
tekh 9 no.2:27-38 '62 [publ. '63].

1. Chlen na Redaktsionnata kolegiia, "Godishnik na Khimiko-
tehnologicheskiiia institut" (for Nikolov).

VULCHEV, Iv., inzh., sutrudnik; KOICHEVA, N., inzh., sutrudnik

Economy of wood in production and use of packing.
Ratsionalizatsiia 14 no. 3:22-25 '64.

1. Ministry of Foreign Trade.

VULCHEV, Ilia G., inzh.; GENOV, Zaprian, inzh.

Modern methods for constructing, testing and standardizing wooden packaging material. Ratsionalizatsiia 11 no.8:30-36 '61.

1. Nauchnoizsledovatel'ski institut po kurvooobrabptvashta i mebelna promishlenost.

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VULCHEV, Ilia [translator]

New techniques in packing production. Durvorabel prom 5 no.4:29-32
Jl-Ag '62.

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Mechanized line production of packaging boards in the D. Kaliashki
State Enterprise, Kyustendil. Durvomebel prom, 7 no. 1:4-12 Ja-F'64

VULCHEV, I.; KONSTANTINOV, V.

"Hydraulic couplings and their application in driving mining machinery"

Tezhka Promishlenost. Sofia, Bulgaria. Vol. 8, no. 2, Feb. 1959

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